

Nuclear Data on the Internet

R.B. Firestone¹, S.Y.F. Chu¹, and L.P. Ekström²

The LBNL Isotopes Project has been providing nuclear data over the Internet since 1995. Home pages are supported for the *Table of Isotopes*, Isotope Explorer software, Nuclear Science References, radioactive decay, high-spin and nuclear structure, nuclear astrophysics, thermal neutron capture, spontaneous fission, atomic masses, nuclear moments, elemental properties, atomic data, interaction of radiation with matter, Q-value calculations, and science education.

These home pages are maintained on the server "ie.lbl.gov", a PC(NT) computer managed by the Isotopes Project. Much of these data are mirrored at Lund University in Sweden.

The NSR and ENSDF databases provided on our servers are obtained from the National Nuclear Data Center (NNDC) at Brookhaven National Laboratory. The NSR file is then

indexed at LBNL and organized for rapid dissemination on the WWW. The *card-image* ENSDF file is converted to the more modern ENSDF/2 format for computer usage. Isotope Explorer and NSR Server send requests to the Isotope Project server for data and references.

Usage of Isotopes Project Internet nuclear data services continues to grow. About 8000 different users make approximately 185,000 data requests per month. Over 400,000 ENSDF/2 isotope data files and about 190,000 WWW *Table of Radioactive Isotopes* searches were requested in 1999. A summary of 1995-2000 monthly usage is shown in figure 1.

Footnotes and References

¹Lawrence Berkeley National Laboratory

²Lund University, Sweden

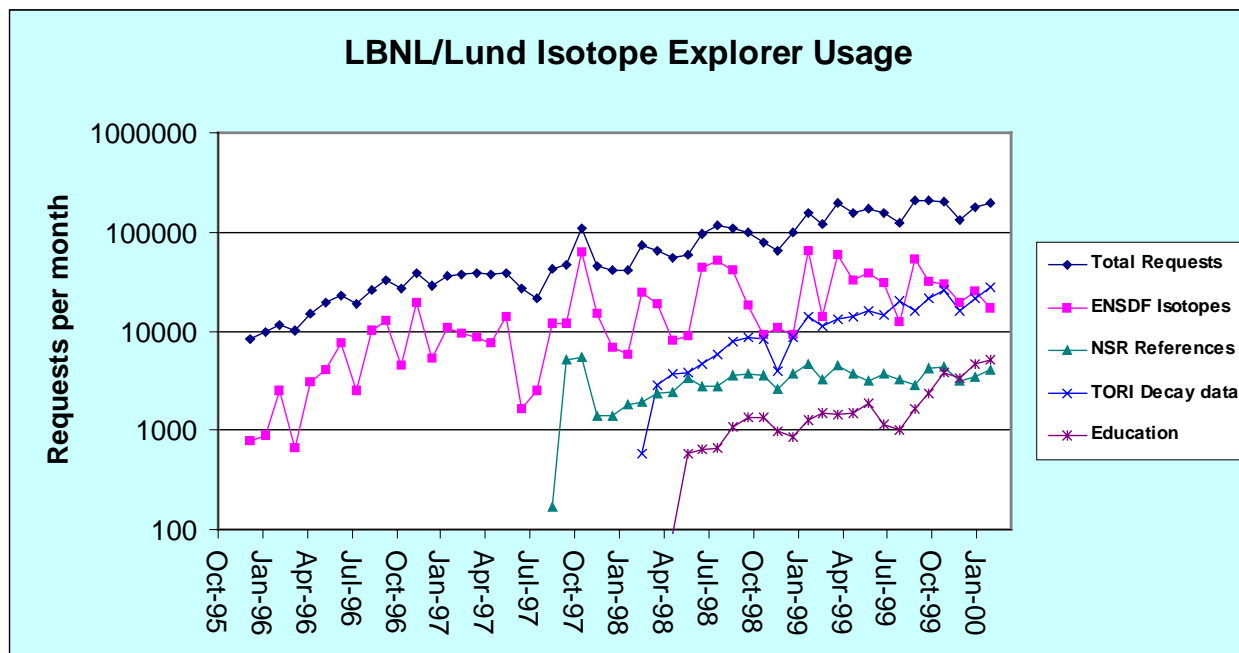


Figure1. Summary of LBNL/Lund Isotope Explorer and WWW usage. The total usage includes all data retrieval requests for the approximately 29,000 data files (1.66 GB) available on the *Table of Isotopes* WWW site.